- 1 In the Claims:
- 2 Cancel Claims 1-14 and add the following new Claims 15-47.

. 1	15. (New) A system for using a shared key to transmit secure data
2	between a client and a server, the system comprising:
3	an encrypt/decrypt engine for using the shared key to encrypt
4	or decrypt data, the encrypt/decrypt engine being
5	configured for delivery via a web page to a client in
6	response to a user request and further configured to
7	encrypt data independently of an identity of the physical
8	client;
9	wherein the server includes a user private keys database
10	configured to store the shared key. And, wherein, it is
11	possible for the client and the server to reside on the same
12	physical computing device.

- 1 16. (New) The system of claim 15 wherein the shared key is a user's private key entered by a user into the web page.
- 1 17. (New) The system of claim 15 further comprising a secure data
 2 database configured to store data received from the client and,
 3 upon the completion of a processing step, to deliver the stored
 4 data in an encrypted format to the client or to another client.
- 1 18. (New) The system of claim 15 further comprising a secure data
 2 database configured to store data received from the client and,
 3 upon receipt of a request for the data, to deliver the stored data
 4 in an encrypted format to the client or to another client.

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re-encrypt the decrypted data.

1	19. (New) The system of claim 15 wherein the shared key is
2	transmitted between the server and the client as few as zero
3	times and the shared key is transmitted between the user and
4	the server as few as one time. The key is not sent for
5	authentication purposes, rather, the effect of the key in the
6	encryption process is sent. Consequently, the shared key does
7	not need to be retransmitted once it has been established.
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1	20. (New) The system of claim 15 wherein the shared key is a user's
2	private key entered by a user.

- 21. (New) The system of claim 15 wherein the client encrypt/decrypt 1 engine is installed on the client. 2
- 22. (New) A system for using a shared key in transmitting secure data between a client and a server, the system comprising: 2 3 an encrypt/decrypt engine for using the shared key in

encrypting data, the encrypt/decrypt engine being configured to 5 encrypt data independently of an identity of the physical client;

6 and

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7 a user private keys database located on the server and 8 configured to store the shared key, the shared key being the 9 private key of a user.

1 23. (New) The system of claim 22 wherein the server is configured to 2 · decrypt encrypted data received from the client using the shared 3 key and to use a private server key, known only by the server, to re-encrypt the decrypted data.

- 24. (New) The system of claim 23 further comprising a secure data
- database configured to store the encrypted data received from
- the client and re-encrypted by the server and to deliver the
- stored data to the client or to another client; the delivered data,
- after the completion of a processing step, being encrypted with
- the shared user key or with another shared user key.
- 25. (New) The system of claim 23 further comprising a secure data
- database configured to store the encrypted data received from
- the client and re-encrypted by the server and to deliver the
- stored data to the client or to another client; the delivered data
- being, upon receipt of a request for the data, encrypted with the
- shared user key or with another shared user key.
- 26. (New) The system of claim 25 wherein the request is from the
- 2 user.
- 27. (New) The system of claim 25 wherein the request is from an
- other user,

- 28. (New) A system for using a shared key in transmitting secure
- data between a client and a server, the system comprising:

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an encrypt/decrypt engine for using the shared key
entered by a user to encrypt data entered by the user, the
encrypt/decrypt engine being configured such that all data
entered by the user and stored on the client is stored in
encrypted form, and further configured to encrypt data
independently of an identity of the physical client; the shared
key entry being the responsibility of the user and not the clien
the server including a user private keys database
configured to store the shared key, the shared key being a
private key of a user; and not a physical client.
(New) The system of claim 28, wherein the encrypt/decrypt
engine uses a symmetric key encryption/decryption algorithm
for encrypting and decrypting data.
(New) The system of claim 28, further including a web server
engine configured for the user to securely send or receive data
from the client to the server.

31. (New) A method for using a shared key in receiving secure data 2 on a server, comprising the steps of: .3 delivering from a server to a client a web page including 4 an encrypt/decrypt engine; encrypting data on the client using the encrypt/decrypt 5 engine and a shared key entered by a user of the client, the shared key being shared between the user and the server; delivering the encrypted data from the client to the server; receiving the encrypted data at the server; 10 decrypting the encrypted data at the server using the 11 shared key; and

14	processing the decrypted data,
1	32. (New) The method of claim 31, wherein the step of processing th
2	decrypted data includes the steps of:
3	encrypting the decrypted data with a private server key;
4	and
5	storing the encrypted data in a database.
1	33. (New) The method of claim 31, wherein the step of processing the
2	decrypted data includes the steps of:
3	re-encrypting the data with an other user's private key
4	shared between the other user and the server; and
5	sending the re-encrypted data to the other user.
1	34. (New) The method of claim 31, wherein the step of processing the
2	decrypted data includes the steps of:
3	decrypting the encrypted data with the private server key;
4	re-encrypting the data with a second user's key shared
5	between the second user and the server; and
6	sending the re-encrypted data to the second user.
1	35. (New) The method of claim 31, wherein the step of processing the
2	decrypted data includes the steps of:
3	processing the data according to an instruction of the
4	user;
5	re-encrypting the processed data using the user's shared
5	key; and
7	sending the re-encrypted processed data to the user.
L	36. (New) The method of claim 31, wherein the step of processing the
2	decrypted data includes storing the decrypted data in a secure
3	database.

2	instructions for causing a computer system to use a shared key
3	in receiving secure data at a server, by the steps of:
4	delivering a web page from the server to a client, the web
5	page including an encrypt/decrypt engine and being configured
6	to use the encrypt/decrypt engine and a shared key entered by
7	a user of the client to encrypt data on the client, the shared key
8	being shared between the user and the server;
9	receiving the encrypted data at the server;
10	decrypting the encrypted data using the shared key; and
11	processing the decrypted data.
. 1	38. (New) A computer-readable medium comprising program
2	instructions for causing a computer system to receive secure
3	data on a server using a shared key, by the steps of:
4	delivering an encrypt/decrypt engine from the server to a
5	client, the encrypt/decrypt engine being configured to use a
6	shared key entered by a user of the client to encrypt data on the
7	client, the shared key being shared between the user and the
8	server and the encryption being independent of an identity of
9	the physical client;
10	receiving the encrypted data at the server;

37. (New) A computer-readable medium comprising program

processing the decrypted data.

decrypting the encrypted data using the shared key; and

. 1	39. (New) The computer readable medium of claim 38, further
2	comprising program instructions for causing the processed
. 3	decrypted data to be re-encrypted using a private server key.
1	40. (New) The computer-readable medium of claim 39, further
2	comprising program instructions for causing the processed
3	decrypted data to be stored in a secure database.
1 2	41. (New) The computer-readable medium of claim 38, wherein processing the decrypted data includes the steps of:
3	re-encrypting the data with the private server key;
4	storing the re-encrypted data;
5	decrypting the stored data with the private server key;
6	encrypting the data with a second user's key shared
, 7	between the second user and the server; and
8	sending the encrypted data to the second user.
1	42. (New) The computer-readable medium of claim 38, wherein
2	processing the decrypted data includes the steps of:
3	processing the data according to an instruction of the
4	user;
5	encrypting the processed data using a shared key; and
6	sending the encrypted processed data to the user or to
7	another user.
; 1	43. (New) A method of using a shared key in transmitting secure data
2	between a client and a server using a shared key, comprising
:3	the steps of:
4	encrypting data using the shared key with an
5	encrypt/decrypt engine configured to encrypt data

6	independently of an identity of the physical client, the shared
• 7	key being entered by a user of the client;
. 8	delivering the encrypted data from the client to the server
9	receiving the encrypted data at the server;
10	decrypting the encrypted data at the server using the
11	shared key, the shared key being stored in a user private keys
12	database; and
13	processing the decrypted data.
. 1	44. (New) The method of claim 43, wherein processing the decrypted
2	data includes the steps of:
3	encrypting the decrypted data with a private server key;
4	and
5	storing the encrypted data in a database.
1	45. (New) The method of claim 43, wherein the step of processing the
. 2	decrypted data includes the steps of:
3	encrypting the data with an other user's private key
4	shared between the other user and the server; and
5	sending the encrypted data to the other user.
. 1	46. (New) The method of claim 43, wherein the step of processing the
2	decrypted data includes the steps of:
3	decrypting the re-encrypted data with the private server
4	key;
5	encrypting the data with a second user's key shared
6	between the second user and the server, and
7	sending the encrypted data to the second user.
1·	47. (New) The method of claim 43, wherein the step of processing the
2.	decrypted data includes the steps of:

3	processing the data according to an instruction of the
.4	user;
5	re-encrypting the processed data using the user's shared
6	key; and
7	sending the re-encrypted processed data to the
8	user.